

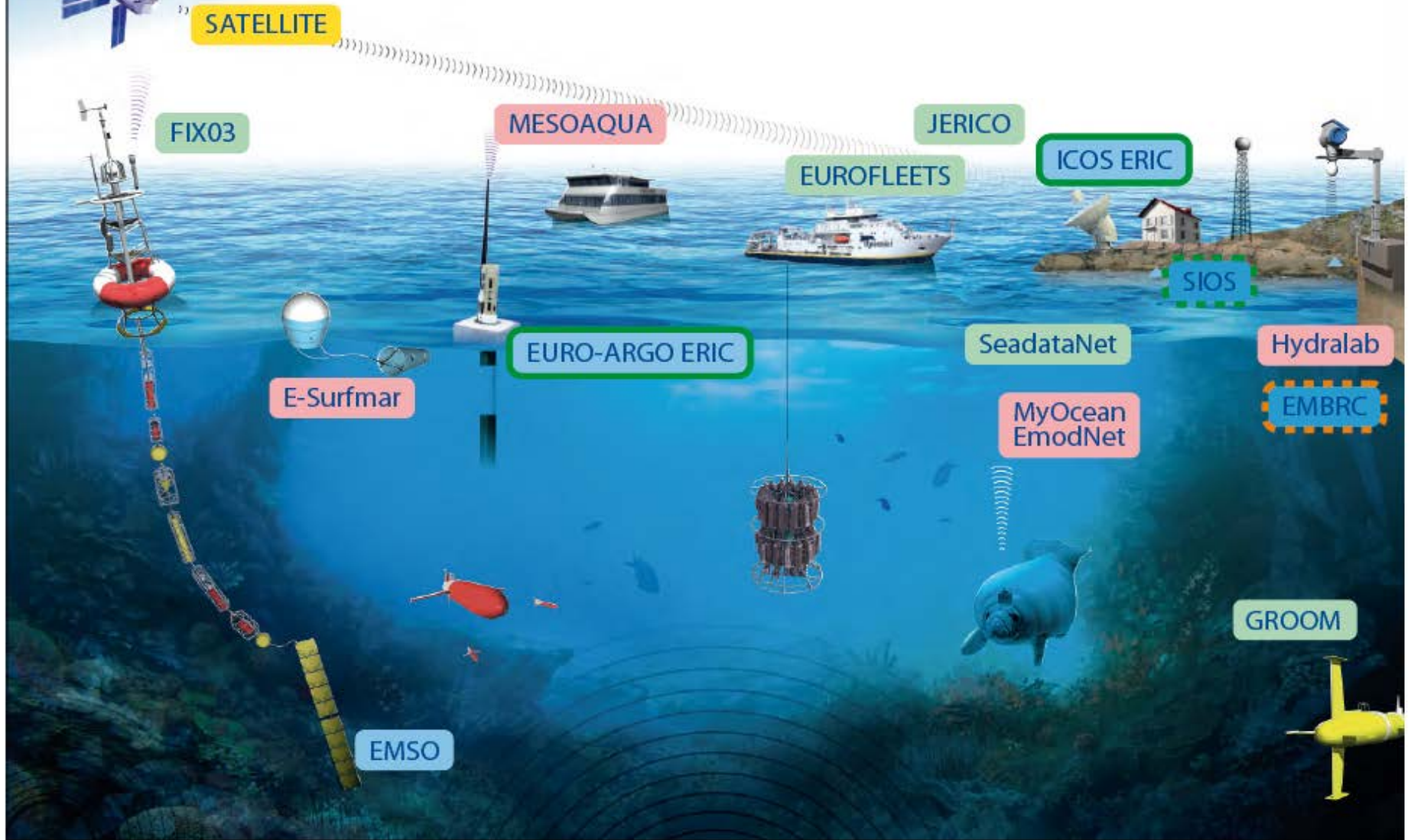


# Fostering Inclusivity and Promoting Innovation for a Healthy Atlantic

Ned Dwyer, Former Executive-Director, EurOcean



# Operational oceanography and ocean and climate change research rely on an integrated sustained multidisciplinary observing system



# POLÍTICA

- \* DEFINIÇÃO E IMPLEMENTAÇÃO DE ESTRATÉGIAS A NÍVEL LOCAL COM ENVOLVIMENTO DE ACTORES CHAVE LOCAIS
- \* IDENTIFICAÇÃO E INTEGRAÇÃO DAS POLÍTICAS SECUNDÁRIAS → ESTRATÉGIAS LOCAIS
- \* DEFESA DO AMBIENTE E GARANTIA DO TERCEIRO
- \* LEGISLAÇÃO
- \* IMPLEMENTAÇÃO
- \* ADAPTAÇÃO DAS ESTRATÉGIAS
- \* ESTUDOS CIENTÍFICOS
- \* PLANO ORÇAMENTAL RELACIONADO BASTANTE
- \* ARTICULAÇÃO ENTRE ENTIDADES ENCADEADAS
- \* ORGANIZAÇÃO INSTITUCIONAL DE ENTIDADES
- \* ADEQUAR PLANOS À REALIDADE TERRITORIAL E LOCAL
- \* ARTICULAÇÃO ENTRE CENTROS DE INVESTIGAÇÃO E DESENVOLVIMENTO
- \* INTEGRAÇÃO CONHECENDO O NÍVEL REGIONAL
- \* CONCENTRAÇÃO ENTRE ENTIDADES NACIONAIS / REFERÊNCIA EUROPEUS
- \* PLANEJAMENTO / MANUTENÇÃO POLÍTICAS ADEQUADAS COM NÍVEL LOCAL
- \* IMPLEMENTAÇÃO / FISCALIZAÇÃO TODIDAS NOMES E EXISTENTES
- \* PRazos VIGÊNCIA PLANOS / ESTRATÉGIAS NÃO SÓTIMAS ACOMPANHAR
- \* MONITORIZAÇÃO CONTÍNUA DAS VIGÊNCIAS
- \* SENSIBILIZAÇÃO SOCIAL
- \* SENSIBILIZAÇÃO RESPONSABILIDADE POLÍTICA A NÍVEL LOCAL
- \* DEFESA INTERESSES PÚBLICOS VS OUTROS (INABILIDADE)
- \* PODER POLÍTICO / POLÍTICAS A REDDO PRATO VS CUALQUER
- \* ADOPTAR POLÍTICAS LOCAIS PARA DIVERSOS OBJETOS / PLANOS
- \* REFORÇAR POLÍTICAS → FOMOS CONTÍNUO

# CULTURAL

1. CARTAZES / PLACARES
2. EDUCAÇÃO PARA A CIDADANIA / SUSTENTABILIDADE / SAÚDE (CIVILIZADA)
3. REDES SOCIAIS / APLICAÇÕES EDUCATIVAS E INFORMATIVAS
4. EDUCAÇÃO NA AÇÃO
5. AÇÃO TÁCTICA / AÇÃO DO CIDADÃO E DO INTERVENIENTE
6. CANTORES / SERVIDORES
7. PRÁTICAS CULTURAIS / INFLUÊNCIAS
8. FOMOS NOS SECTORES
9. FOMOS
10. FOMOS
11. FOMOS
12. FOMOS
13. FOMOS
14. FOMOS
15. FOMOS
16. FOMOS
17. FOMOS
18. FOMOS
19. FOMOS
20. FOMOS

# ECONOMIA

- \* TURISMO SAÚDE E BEM-ESTAR
- \* TURISMO DESPORTIVO
- \* TURISMO DA NATUREZA
- \* TURISMO CULTURAL E PATRIMÓNIO
- \* "MUSEUS VIRTUAIS"
- \* TURISMO GASTRONÓMICO (TRADICIONAL)
- \* TURISMO

SOCIAIS

AMBIENTE



“I understand that my people who had all the vital knowledge.... were not heard because they were not well enough educated .... They had no voice, even though they had critical information”

*Janni Staffansson ( from Climate Justice, Mary Robinson)*

“The strengthening of the relation between the academic world and civil society is a must. This is part of our mission but most of all, a real opportunity of enrichment for universities”

*Nathalie Dompnier, President Université Lumière of Lyon (NUCLEUS Project)*

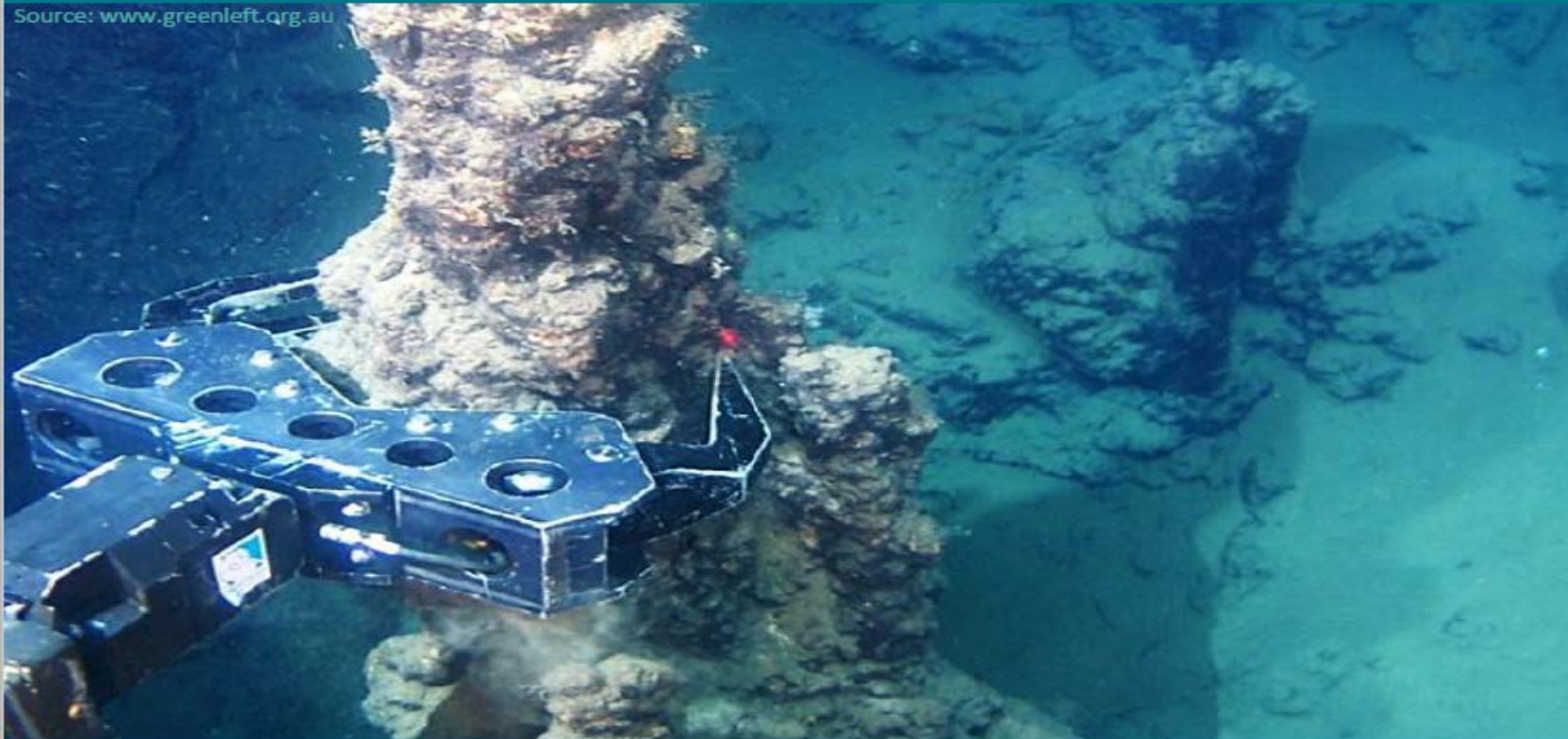
# DEEP SEA MINING

AN OPPORTUNITY TO DO THINGS RIGHT

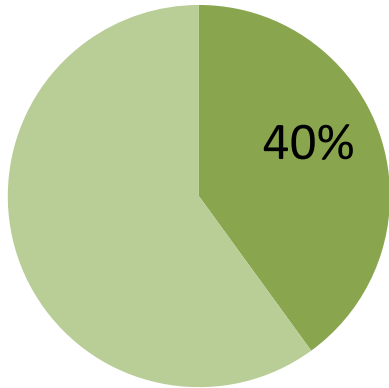
7 May 2018

*Gulbenkian Foundation | Lisbon | Portugal*

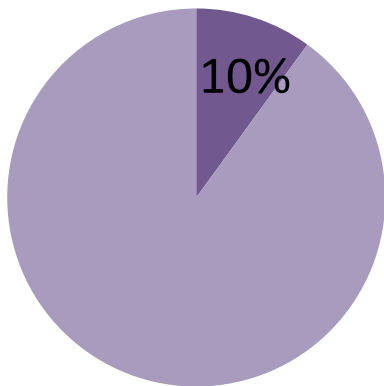
Source: [www.greenleft.org.au](http://www.greenleft.org.au)



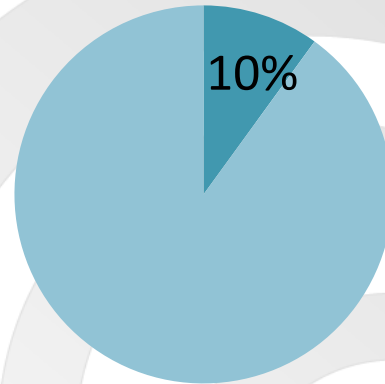
# Sectoral representation in Lisbon Workshop



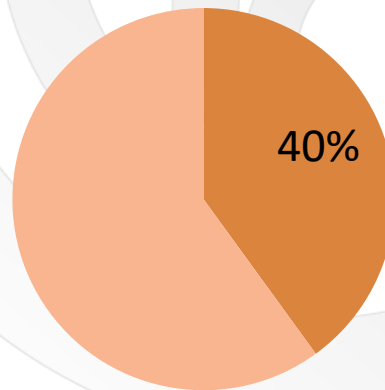
Citizens  
CSOs  
NGOs



Business  
people

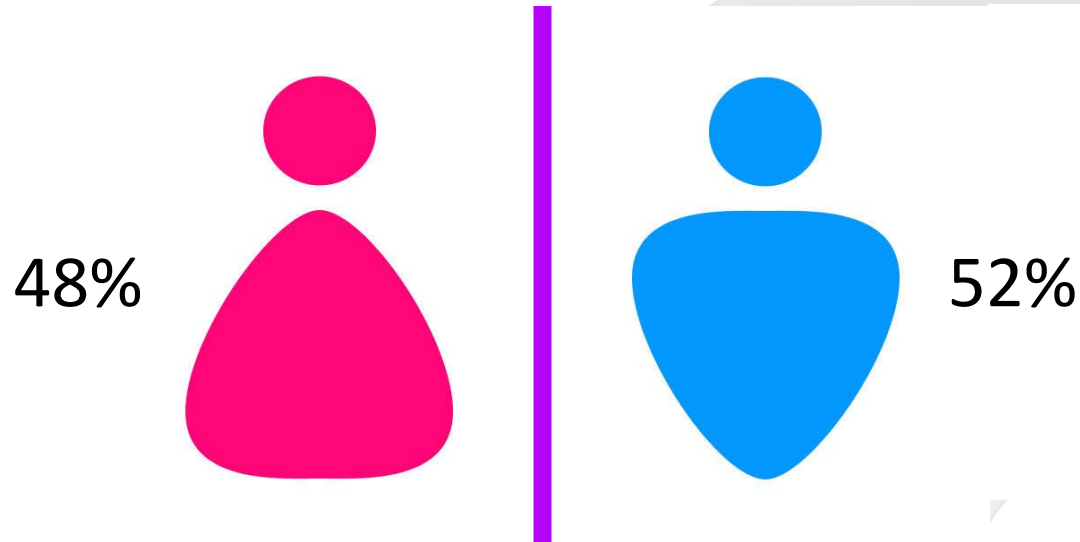


Policymakers



Researchers  
Scientists

## Gender representation in Lisbon Workshop



“failing to consider gender leads to faulty understanding of existing marine resource use and the potential for management strategies that do not work and/or exacerbate societal problems”

Sarah Carr, Editor MEAM and MPA News, December 2018





## A series of Actions and a Roadmap were defined

.....

.....

Make Environmental Impact Assessment mandatory for Deep Sea Mining within the EU

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.....

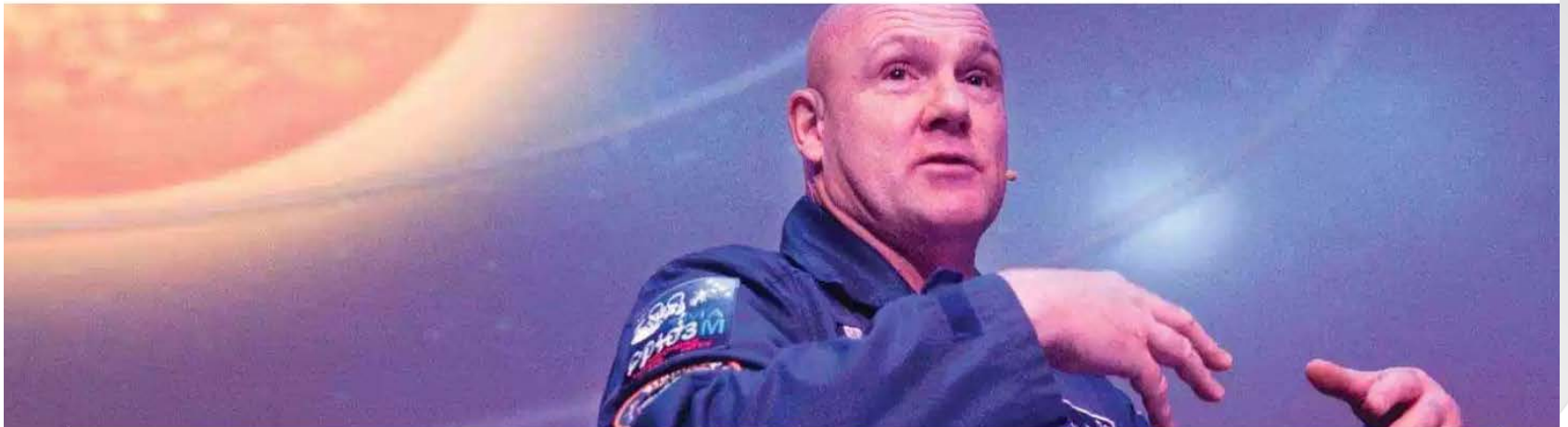
Increase awareness on the use of raw materials and their importance for our society

.....

## Who chooses the research themes?



[Dutch National Research Agenda](#) | [Routes](#) | [Publications](#) | [Contact](#)



### Dutch National Research Agenda

The Dutch National Research Agenda is a source of inspiration for those interested in science. The agenda presents 140 overarching scientific questions and is the result of a unique bottom-up



## Who does the research?



# Community Based Data Managers in Greenland



## PISUNA Project Lessons Learned

- A supportive policy environment
- Community-driven approach
- Common understanding across stakeholders

[www.pisuna.org](http://www.pisuna.org)

Photo: Finn Daniels

# Science Education



## Is it time for a code of ethics for ocean observing?

- Respect & **minimize impacts** from research and monitoring on ocean ecosystems
- Respect and **engage local people** in research activities from multiple cultures and diverse sectors
- Work with the goal of **global benefit** based on reciprocal relations, transparency and responsibility

M. Barbier et al.: Ethical recommendations for ocean observation, *Adv. Geosci.*, 45, 343–361, 2018

## Is it time for a code of ethics for ocean observing?

- Maximize the **efficiency** and **quality** of observations in research activities
- **Engaging society** and communicate with and advise policymakers
- **Share data**: acquire once, use multiple times
- Encouraging **learning**

M. Barbier et al.: Ethical recommendations for ocean observation, *Adv. Geosci.*, 45, 343–361, 2018



“Europe too rarely succeeds in turning research into innovation, in getting research results to market”.

*European Commission’s Open Innovation, Open Science, Open to the World: A Vision for Europe (2016)*

## Barriers to Knowledge Transfer

Lack of inclusion of end-users

Time-bound projects

Low maturity in research outputs

Lack of appropriate regulatory framework


Lack of incentives for researchers

Poor access to data and project outputs


Financial constraints  
“Valley of Death”

# How can this be improved – some recommendations for funders

Consider KT at all stages of the project life cycle:  
**pre funding**, implementation and post project stage

A large green circle containing the text "Provide clear view on the expected impacts".

Provide clear view on the expected impacts

A large red circle containing the text "Trained Multi-stakeholder evaluation panels".

Trained Multi-stakeholder evaluation panels

A large green circle containing the text "Use negotiation period to improve KT weaknesses".

Use negotiation period to improve KT weaknesses



# How can this be improved – some recommendations for funders

Consider KT at all stages of the project life cycle:  
pre funding, **implementation** and post project stage

A blue circular graphic containing white text. It is positioned on the left side of the slide, overlapping a large, faint, light-blue circular background element that resembles the eurocean logo.

Project  
monitoring staff  
need  
understanding of  
KT principles and  
strategies


A purple circular graphic containing white text. It is positioned on the right side of the slide, overlapping the same large, faint, light-blue circular background element.

Project  
reporting for  
identification  
of knowledge  
outputs and  
impacts




# How can this be improved – some recommendations for funders


Consider KT at all stages of the project life cycle:  
pre funding, implementation and **post project** stage

A large brown circle containing the text "Assess if real impact achieved".

Assess if real  
impact  
achieved

A large teal circle containing the text "Fund knowledge transfer post-project".

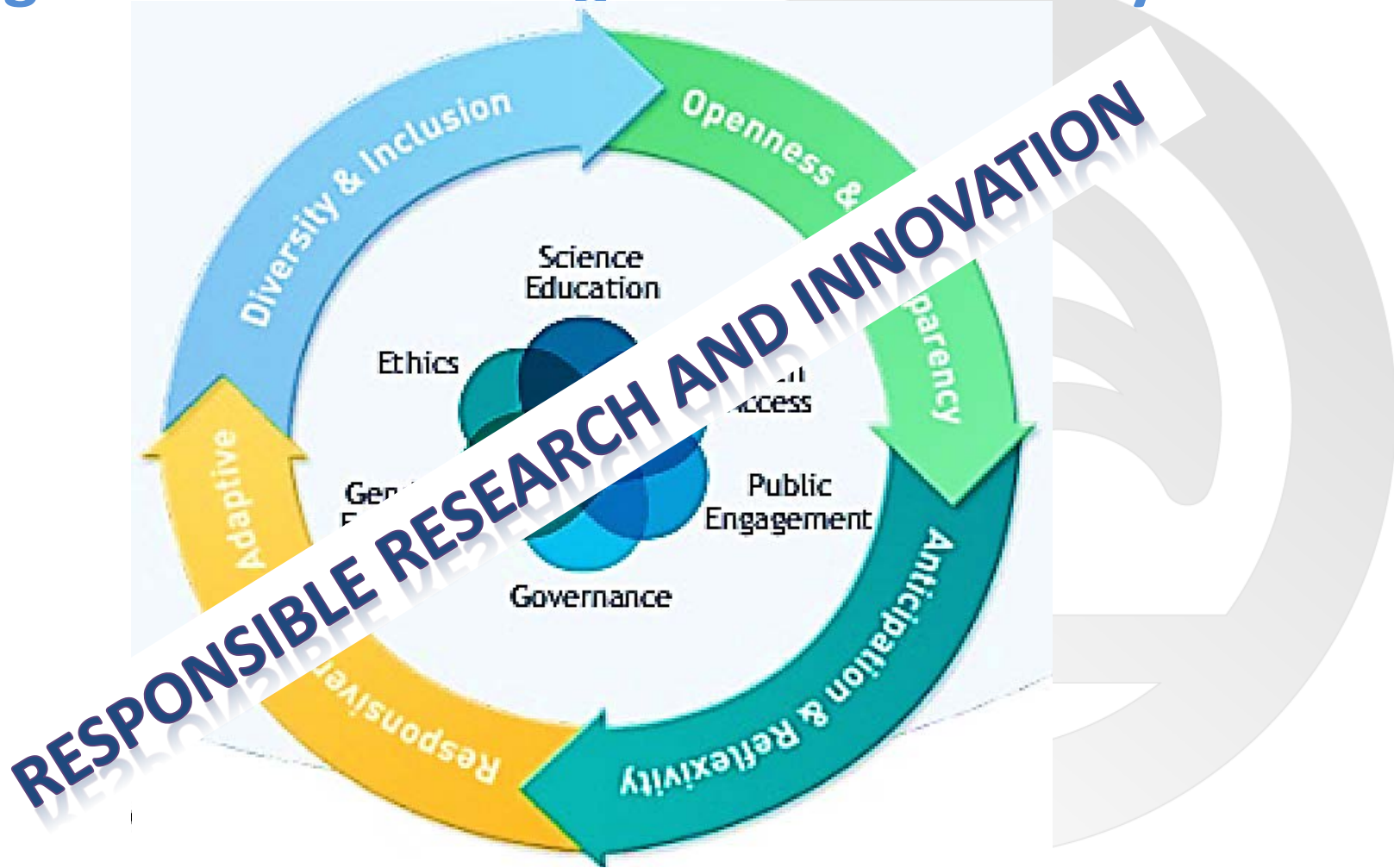
Fund knowledge  
transfer post-  
project

A large brown circle containing the text "Encourage recognise and promote knowledge transfer".

Encourage  
recognise  
and promote  
knowledge  
transfer



# Solving Research Challenges in a Better Way



# Responsible Research and Innovation

## MARINA PLATFORM

Take action! Enter the MARINA Community

*We have always relied on seas for food, recreation, economic opportunities, transport, as a waste dump and so on. Now, with the climate change in progress and the intensive human exploitation, the marine ecosystem in Europe is in serious danger. We will be able to reverse this trend only if citizens, researchers, policy makers, industrial and societal actors work together.*

The sea needs you, join the MARINA project!

Stay up to date  
Join the MARINA  
community at  
[www.marinaproject.eu](http://www.marinaproject.eu)

The MARINA project will engage these actors in order to share knowledge, include the citizens' vision and societal needs, create a synergy between research&innovation and the environmental safeguard. The Responsible Research and Innovation (RRI) process will achieve these objective: RRI is a new approach to science whereby all actors engaged can effectively make their voice heard in the whole research process and share their ideas with those who develop new solutions. Thanks to the on field experience, MARINA project will strengthen this systematic approach, making it transferable and reproducible for any RRI thematic domain.

### Login

Sign in

[Forgot Password or Username?](#)

Sign in with:



### New to MARINA Community? Sign up

Private User

Organization

I agree to your terms and I have read your Data Policy, including your Cookie and confirm I am at least 18 years old.

Sign up

[www.marinaproject.eu](http://www.marinaproject.eu)

- Create your profile
- Join groups with common interests
- Share information and opinions
- Organise or register in events
- Network
- Access the results of all MARINA workshops

## Sustainable Development Goals and EO

- Marine renewables
  - Wind patterns
  - Sea states



- Climate
  - Early warning systems
  - Spatial patterns

- Sea defences
  - Wave states
  - Sediment movement



- Use & Conservation
  - aquaculture
  - Fishing
  - pollution

Adapted from slide courtesy Shona Patterson, UCC



## Societal implication in relation to EO

- Bridging the digital divide



- Equity and social justice movements

- Resources
  - Food sources
  - resources
  - Circular economy



- Not just SDGs
  - Sendai
  - CBD
  - Paris

Adapted from slide courtesy Shona Patterson, UCC

## Take Home Message

We need to be innovative not only in technology but also in the human dimension encouraging participative co-design and co-creation of solutions for a healthy Atlantic and better planet.

## References

H2020 Marina Project: <http://www.marinaproject.eu>

H2020 COLUMBUS Project: <http://www.columbusproject.eu>

M. Barbier et al.: Ethical recommendations for ocean observation,  
Adv. Geosci., 45, 343–361, 2018

M. Robinson, *Climate Justice, Hope, Resilience and the Fight for a Sustainable Future*  
Bloomsbury

Nucleus Project: <http://www.nucleus-project.eu>